

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 2005/001574

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 12/28, H04L 12/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages -	Relevant to claim No.
A	US 20040066762 A1 (ALASTALO), 8 April 2004 (08.04.2004), figure 5 --	1-33
A	WO 03084146 A1 (CHO, KWANG SUN), 9 October 2003 (09.10.2003), claims 35-39 --	1-33
A	WO 0221746 A2 (PARKER, JOSEPH A), 14 March 2002 (14.03.2002), figure 1C --	1-33
A	EP 0999717 A2 (CALY, INC), 10 May 2000 (10.05.2000), claim 38 --	1-33

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

6 October 2005

Date of mailing of the international search report

10-10-2005

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Kristoffer Ogebjer /EK  
Telephone No. +46 8 782 25 00

From the INTERNATIONAL SEARCHING AUTHORITY

**PCT**

To:

Morgan & Finnegan, LLP  
 Harroun, John A.  
 Three World Financial Center  
 10281 New York  
 USA

**NOTIFICATION OF TRANSMITTAL OF  
 THE INTERNATIONAL SEARCH REPORT AND  
 THE WRITTEN OPINION OF THE INTERNATIONAL  
 SEARCHING AUTHORITY, OR THE DECLARATION**

(PCT Rule 44.1)

CASE 04208-4176 PC ATTY JAH  
 DUE January 10, 2006 (U.S. Supl. IDs)

Date of mailing  
 (day/month/year) **10-10-2005**

Applicant's or agent's file reference

4208-4176 PC BY jm

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/IB2005/001574

International filing date  
 (day/month/year)

03-06-2005

Applicant

Nokia Corporation  
 et al

M F 10/18/05 PM 12:38

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

For more detailed instructions, see notes on the accompanying sheet.

CASE 4208-4176 PC ATTY JAH  
 DUE December 10, 2005 (Art 19)

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/

Patent- och registreringsverket  
 Box 5055  
 S-102 42 STOCKHOLM  
 Facsimile No. 08-667 72 88

Telex  
 17978  
 PATOREG-S

Authorized officer

**Lina Oljeqvist**

Telephone No. 08-782 25 00

2004-10-11

## Download your patent documents at [www.prv.se](http://www.prv.se)

You can now download your "cited document(s)" electronically at our website [www.prv.se](http://www.prv.se).

We have created a service where you can download the documents cited in the search report (PCT fas I and ITS) electronically as pdf files.

Due to copyright restrictions, you will continue to receive so-called IPL documents ("icke patentlitteratur"/non-patent literature) in paperform.

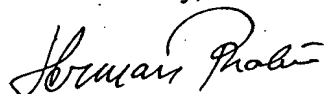
If you are unable to download your patent documents electronically you are welcome to order paper copies against payment from PRV InterPat phone number 08-782 28 85.

### How to download your document:

1. Go into our website [www.prv.se](http://www.prv.se).
2. On the first side click on "sök information?" beneath the zebra.  
In the box "Tänk på att" you find a short cut to all our e-services.  
You find the link to "Anförda document" at the top of the list.
3. Enter your details in the log-in window:
  1. Användar namn (user name) = **prv**
  2. Lösenord (password) = **patentdok**
3. You have now come to the search engine. Give the country codes, document numbers and document codes for the documents which we have cited in the search report
4. Click on "Sök" or press "Enter"
5. A list of your documents is now shown as a set of links. If you click on a link, the document is opened using the free programme Acrobat Reader.
6. To save a document on the hard disk, you right click on the link and select "Spara mål som..." (Save target as...)

If a document is cited as "saknas i databas" (missing from database), you can report this by clicking on the "skapa felrapport" (create error report) button, or by clicking on "Rapportera fel" (Report error) which is to the left on the "Orders" page. You then fill in the information form and select "Skicka" (Send). You can also call customer services for help phone number +46 (0)8 782 26 00.

Yours sincerely,



**Herman Phalén**  
Principal Director Patent Process  
Swedish Patent and registration Office  
Box 5055  
102 42 Stockholm  
phone: +46 (0)8 782 26 60  
e-mail: [herman.phalen@prv.se](mailto:herman.phalen@prv.se)

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>4208-4176PC</b>	<b>FOR FURTHER ACTION</b> <span style="font-size: small; display: block; margin-top: 5px;">see Form PCT/ISA/220 as well as, where applicable, item 5 below.</span>	
International application No. <b>PCT/IB 2005/001574</b>	International filing date ( <i>day/month/year</i> ) <b>3 June 2005</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>18 June 2004</b>
Applicant <b>Nokia Corporation et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of   3   sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No.   1a
- ☒ as suggested by the applicant.
- ☐ as selected by this Authority, because the applicant failed to suggest a figure.
- ☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 2005/001574

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	EP 1515473 A2 (NOKIA CORPORATION), 16 March 2005 (16.03.2005), figure 1  -- -----	1-33

# INTERNATIONAL SEARCH REPORT

Information on patent family members

31/08/2005

International application No.:

PCT/IB 2005/001574

US	20040066762	A1	08/04/2004	AT	291828	T	15/04/2005
				AU	7089501	A	05/02/2002
				DE	60109622	D	00/00/0000
				EP	1304020	A,B	23/04/2003
				GB	0103274	D	00/00/0000
				JP	2004504710	T	12/02/2004
				US	6885728	B	26/04/2005
				US	20030147498	A	07/08/2003
				WO	02063836	A	15/08/2002
-----							
WO	03084146	A1	09/10/2003	AU	2003214695	A	00/00/0000
				CA	2443871	A	02/10/2003
				KR	2003079198	A	10/10/2003
				US	20040147223	A	29/07/2004
-----							
WO	0221746	A2	14/03/2002	AU	9062001	A	22/03/2002
				US	6415074	B	02/07/2002
-----							
EP	0999717	A2	10/05/2000	BR	9913999	A	03/07/2001
				CN	1321381	A,T	07/11/2001
				EP	1123608	A	16/08/2001
				JP	2002529017	T	03/09/2002
				WO	0025485	A,B	04/05/2000
-----							
EP	1515473	A2	16/03/2005	US	20050058107	A	17/03/2005
-----							